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PTO/SB/05 (03-01)
Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. **87334.5920**

First Inventor **Chuan Weng**

Title **Non-HCFC Refrigerant Mixture For Ultra-Low Temperature Refrigeration System**

Express Mail Label No.

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☐ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages **38**]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure

4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets **7**]

5. Oath or Declaration [Total Pages **1**]

- a. ☐ Newly executed (original or copy)
- b. ☒ Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

6. ☐ Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. ☐ Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. ☐ CD-ROM or CD-R (2 copies); or
 - ii. ☐ paper
 - c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement of Power of Attorney (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449
13. ☒ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. ☐ Other: _____

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☒ Divisional ☐ Continuation-in-part (CIP)

Prior application information:

Examiner **H. Tanner**

of prior application No. **10/305,188**

Group Art Unit: **3744**

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Label



or ☐ Correspondence address below

Name

30734

PATENT TRADEMARK OFFICE

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

Sean A. Pryor

Registration No. (Attorney/Ag nt)

48,103

Signature

Sean A. Pryor

Date

8-19-03

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**FEE TRANSMITTAL
for FY 2002**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$)**858.00****Complete if Known**

Application Number

n/a

Filing Date

August 19, 2003

First Named Inventor

Chuan Weng

Examiner Name

H. Tanner

Group Art Unit

3744

Attorney Docket No.

87334.5920

METHOD OF PAYMENT

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit
Account
Number

50-2036

Deposit
Account
Name☐ Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17☐ Applicant claims small entity status.
See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☒ Check☐ Credit card☐ Money
Order☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Code Fee Code Fee Description

| | | | | | |
|-----|-----|-----|-----|------------------------|------------------------|
| 101 | 740 | 201 | 370 | Utility filing fee | Fee Paid 750 |
| 106 | 330 | 206 | 165 | Design filing fee | |
| 107 | 510 | 207 | 255 | Plant filing fee | |
| 108 | 740 | 208 | 370 | Reissue filing fee | |
| 114 | 160 | 214 | 80 | Provisional filing fee | |

SUBTOTAL (1) (\$)**750****2. EXTRA CLAIM FEES**

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| 26 | -20** = 6 | 18 | 108 |
| 2 | -3** = 0 | 84 | 0 |
| Multiple Dependent | | | |

Large Entity Small Entity

Fee Code Fee Code Fee Description

| | | | | |
|-----|-----|-----|-----|--|
| 103 | 18 | 203 | 9 | Claims in excess of 20 |
| 102 | 84 | 202 | 42 | Independent claims in excess of 3 |
| 104 | 280 | 204 | 140 | Multiple dependent claim, if not paid |
| 109 | 84 | 209 | 42 | ** Reissue independent claims over original patent |
| 110 | 18 | 210 | 9 | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$)**108**

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

| Fee Code | Large Entity (\$) | Small Entity (\$) | Fee Code | Small Entity (\$) | Fee Description | Fee Paid |
|----------|-------------------|-------------------|----------|-------------------|--|----------|
| 105 | 130 | 205 | 65 | | Surcharge - late filing fee or oath | |
| 127 | 50 | 227 | 25 | | Surcharge - late provisional filing fee or cover sheet | |
| 139 | 130 | 139 | 130 | | Non-English specification | |
| 147 | 2,520 | 147 | 2,520 | | For filing a request for <i>ex parte</i> reexamination | |
| 112 | 920* | 112 | 920* | | Requesting publication of SIR prior to Examiner action | |
| 113 | 1,840* | 113 | 1,840* | | Requesting publication of SIR after Examiner action | |
| 115 | 110 | 215 | 55 | | Extension for reply within first month | |
| 116 | 400 | 216 | 200 | | Extension for reply within second month | |
| 117 | 920 | 217 | 460 | | Extension for reply within third month | |
| 118 | 1,440 | 218 | 720 | | Extension for reply within fourth month | |
| 128 | 1,960 | 228 | 980 | | Extension for reply within fifth month | |
| 119 | 320 | 219 | 160 | | Notice of Appeal | |
| 120 | 320 | 220 | 160 | | Filing a brief in support of an appeal | |
| 121 | 280 | 221 | 140 | | Request for oral hearing | |
| 138 | 1,510 | 138 | 1,510 | | Petition to institute a public use proceeding | |
| 140 | 110 | 240 | 55 | | Petition to revive - unavoidable | |
| 141 | 1,280 | 241 | 640 | | Petition to revive - unintentional | |
| 142 | 1,280 | 242 | 640 | | Utility issue fee (or reissue) | |
| 143 | 460 | 243 | 230 | | Design issue fee | |
| 144 | 620 | 244 | 310 | | Plant issue fee | |
| 122 | 130 | 122 | 130 | | Petitions to the Commissioner | |
| 123 | 50 | 123 | 50 | | Processing fee under 37 CFR 1.17(q) | |
| 126 | 180 | 126 | 180 | | Submission of Information Disclosure Stmt | |
| 581 | 40 | 581 | 40 | | Recording each patent assignment per property (times number of properties) | |
| 146 | 740 | 246 | 370 | | Filing a submission after final rejection (37 CFR § 1.129(a)) | |
| 149 | 740 | 249 | 370 | | For each additional invention to be examined (37 CFR § 1.129(b)) | |
| 179 | 740 | 279 | 370 | | Request for Continued Examination (RCE) | |
| 169 | 900 | 169 | 900 | | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)

Sean A. Payson

Registration No.
(Attorney/Agent)

48,103

Telephone

202 861 1500

Signature

Sean A. Payson

Date

8-19-03

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